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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/786,293	03/01/2001	Ronaldus Maria Aarts	PHN-17,509	8105
24737 7	590 07/29/2004		EXAMINER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			PENDLETON, BRIAN T	
P.O. BOX 300 BRIARCLIFF	MANOR, NY 10510	ART UNIT		PAPER NUMBER
			2644	8
			DATE MAILED: 07/29/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/786,293	AARTS ET AL.			
.	Office Action Summary	Examiner	Art Unit			
		Brian T. Pendleton	2644			
Period fo	The MAILING DATE of this communication ap or Reply	ppears on the cover sheet with the o	correspondence address			
A SH THE - Exte after - If the - If NO - Faill Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above its less than thirty (30) days, a replay provided to reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tirply within the statutory minimum of thirty (30) day if will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	nely filed /s will be considered timely. It the mailing date of this communication. ED (35 U.S.C. § 133).			
Status			•			
2a)⊠	, , , , , , , , , , , , , , , , , , , ,					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)⊠ 6)⊠ 7)⊠	Claim(s) 1-9,11 and 12 is/are pending in the a 4a) Of the above claim(s) is/are withdra Claim(s) 4-7 and 11 is/are allowed. Claim(s) 1-3 and 9 is/are rejected. Claim(s) 8 and 12 is/are objected to. Claim(s) are subject to restriction and/or	awn from consideration.				
Applicat	ion Papers					
10)⊠	The specification is objected to by the Examina The drawing(s) filed on <u>03 March 2001</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E	a) \square accepted or b) \square objected to drawing(s) be held in abeyance. Section is required if the drawing(s) is objection	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority ι	under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea See the attached detailed Office action for a list	nts have been received. Its have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachmen	t(s)					
2) 🔲 Notic 3) 🔲 Infor	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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Art Unit: 2644

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-3, 8 and 9 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Gelow et al, US Patent 4,583,245. Gelow et al disclose a speaker system protection circuit in figure 6 comprising crossover filter 12 (filter means), gain controllers 206, 226 (controllable amplifier/attenuator means coupled to the filter means), thermal limit sense units 210, 230, which control gain of the gain controllers based on the output from power amplifiers 26, 30 shown in figure 2 and excursion limit sense unit 220 which controls gain in low-frequency equalizer 216 (processing means for controlling the amplifier/attenuator in response to audio power in at least one of the frequency bands. The thermal limit sense unit and excursion limit sense unit are responsive to audio power since higher audio power increases temperature and speaker excursion. Claim 1 is met. Per claim 2, inherently the audio power determined by the thermal limit sense units and excursion limit sense unit is proportional to peak value of the amplitude of the frequency components. Regarding claim 3, n=2 as there are two frequency bands created by filter 12.

Claim Rejections - 35 USC § 103

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4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gelow et al in view of Frindle et al. Gelow et al disclose an apparatus comprising filter means for defining a frequency band, controllable amplifier means, and processing means coupled to the controllable amplifier means for controlling the input audio signal based on signal power. Gelow et al do not teach the processing means is arranged to initiate control in a shorter amount of time than that control is withdrawn. Gelow et al do not explicitly discuss attack and release times. Frindle et al teach an audio processing apparatus for controlling the gain of an input signal comprising peak detector 30 and processor 50. As demonstrated in figures 2 and 3, it was well known to have an attack time which is shorter than the release time period. This feature initiates control of the gain in a shorter amount of time than withdrawing control, as claimed by the Applicant. It was advantageous to use such a feature because it would quickly respond to abrupt increases in the input signal, thereby preventing overdriving a speaker. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to combine the teachings of Gelow et al and Frindle et al.

Allowable Subject Matter

- 5. Claims 4-7 and 11 are allowed.
- 6. Claims 8 and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian T. Pendleton whose telephone number is (703) 305-9509. The examiner can normally be reached on M-F 7-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W. Isen can be reached on (703) 305-4386. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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PRIMARY EXAMINER